National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 19th July 2022

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली – 110016
   Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –400093
   Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009
   Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 18.07.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-जुलाई-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध है |

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 18th July 2022, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting:** **19-Jul-2022**

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	65128	49579	40362	24916	3164	183149
Peak Shortage (MW)	1980	82	400	1389	67	3918
Energy Met (MU)	1511	1122	909	562	62	4166
Hydro Gen (MU)	357	61	148	112	26	704
Wind Gen (MU)	5	124	157	-	-	286
Solar Gen (MU)*	91.86	27.82	70.41	4.50	0.78	195
Energy Shortage (MU)	17.18	0.18	1.60	16.78	0.14	35.88
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69126	49748	43034	26238	3207	182405
Time Of Maximum Demand Met (From NLDC SCADA)	23:51	19:41	10:17	23:20	19:04	19:52

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.117	3.51	3.76	11.58	18.85	76.26	4.88

C. Power Supply Position in States

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	12139	0	265.5	171.9	-1.3	241	0.00
	Haryana	9745	625	208.7	137.1	0.6	267	3.06
	Rajasthan	10513	219	233.1	63.1	1.6	483	3.32
	Delhi	6847	0	134.3	123.4	-1.3	126	0.00
	UP	24733	0	526.5	231.0	0.2	378	9.21
	Uttarakhand	2255	35	49.9	27.8	0.1	124	1.41
	HP	1634	0	33.5	-6.4	0.0	61	0.00
	J&K(UT) & Ladakh(UT)	2543	0	53.0	30.2	-2.8	164	0.18
	Chandigarh	365	0	7.1	7.1	0.0	28	0.00
WR	Chhattisgarh	3884	0	91.4	39.2	-0.6	172	0.00
	Gujarat	14580	0	325.2	189.2	-3.2	676	0.00
	MP	9772	0	218.2	88.4	0.0	341	0.00
	Maharashtra	20187	0	433.2	144.9	-2.7	640	0.18
	Goa	596	0	11.7	11.9	-0.2	43	0.00
	DNHDDPDCL	1126	0	25.8	25.7	0.1	42	0.00
	AMNSIL	785	0	16.7	11.4	-1.1	52	0.00
SR	Andhra Pradesh	8386	0	178.8	58.9	-0.5	475	0.00
	Telangana	8524	0	162.9	69.7	-1.0	849	0.00
	Karnataka	8750	0	162.1	38.6	1.9	900	1.60
	Kerala	3273	0	66.5	33.4	-0.8	271	0.00
	Tamil Nadu	15290	0	329.1	135.0	2.0	1333	0.00
	Puducherry	422	0	9.5	8.8	-0.1	45	0.00
ER	Bihar	6523	1144	140.6	126.6	1.7	291	11.06
	DVC	3559	0	74.9	-41.8	-0.7	339	0.00
	Jharkhand	1467	89	28.8	25.2	-1.5	248	5.72
	Odisha	5768	0	125.7	60.7	-1.6	307	0.00
	West Bengal	9522	0	190.3	64.9	0.4	363	0.00
	Sikkim	90	0	1.5	1.4	0.1	21	0.00
NER	Arunachal Pradesh	143	0	2.6	2.7	-0.2	44	0.00
	Assam	2070	0	40.5	33.6	-0.3	139	0.00
	Manipur	193	29	2.7	2.7	0.0	25	0.09
	Meghalaya	340	0	6.2	0.3	0.1	42	0.00
	Mizoram	100	0	1.6	0.8	0.3	49	0.00
	Nagaland	151	0	2.9	2.5	-0.1	11	0.00
	Tripura	306	0	5.6	6.3	0.1	39	0.05

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual (MU)	26.4	5.1	-23.5
Day Peak (MW)	1383.0	255.7	-1006.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	283.8	-182.1	-11.0	-86.9	-3.9	0.0
Actual(MU)	282.7	-177.8	-14.0	-87.0	-6.5	-2.7
O/D/U/D(MU)	-1.1	4.3	-3.1	-0.1	-2.7	-2.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3785	15496	6638	2665	309	28892	40
State Sector	8200	19494	11900	2800	251	42644	60
Total	11985	34989	18538	5465	560	71536	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	777	1078	407	568	17	2848	66
Lignite	24	8	60	0	0	93	2
Hydro	360	61	148	112	26	706	16
Nuclear	29	30	62	0	0	121	3
Gas, Naptha & Diesel	16	3	9	0	30	58	1
RES (Wind, Solar, Biomass & Others)	90	152	263	5	1	511	12
Total	1297	1333	949	685	73	4336	100

Share of RES in total generation (%)	6.96	11.43	27.75	0.66	1.06	11.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.97	18.29	49.79	16.99	35.97	30.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.049
Based on State Max Demands	1.078

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

***Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 19-Jul-2022

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	501	0.0	12.3	-12.3
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	267	292	0.0	0.3	-0.3
4	765 kV	SASARAM-FATEHPUR	1	0	301	0.0	1.7	-1.7
5	765 kV	GAYA-BALIA	1	0	773	0.0	13.1	-13.1
6	400 kV	PUSAULI-VARANASI	1	27	54	0.0	0.2	-0.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	87	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	920	0.0	14.6	-14.6
9	400 kV	PATNA-BALIA	2	0	636	0.0	12.8	-12.8
10	400 kV	NAUBATPUR-BALIA	2	0	677	0.0	13.3	-13.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	482	0.0	6.6	-6.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	533	0.0	8.9	-8.9
13	400 kV	BIHARSHARIFF-VARANASI	2	62	219	0.0	1.9	-1.9
14	220 kV	SAHUPURI-KARAMNASA	1	0	188	0.0	2.9	-2.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	90.7	-90.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	26.5	0.0	26.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1309	10	18.6	0.0	18.6
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	2.5	-2.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	0.3	-0.3
5	400 kV	RANCHI-SIPAT	2	294	56	3.3	0.0	3.3
6	220 kV	BUDHIPADAR-RAIGARH	1	51	77	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	131	0	2.0	0.0	2.0
					ER-WR	50.4	3.3	47.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	584	0	14.4	0.0	14.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2002	0.0	37.9	-37.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	3123	0.0	51.4	-51.4
4	400 kV	TALCHER-I/C	2	719	510	3.1	0.0	3.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	14.4	89.3	-74.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	4	327	0.0	4.1	-4.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	91	405	0.0	4.7	-4.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	98	0.0	1.5	-1.5
					ER-NER	0.0	10.2	-10.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	17.0	-17.0
					NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4007	0.0	50.4	-50.4
2	HVDC	VINDHYACHAL B/B	-	443	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1015	0.0	22.8	-22.8
4	765 kV	GWALIOR-AGRA	2	25	2090	0.0	30.7	-30.7
5	765 kV	GWALIOR-PHAGI	2	16	1650	0.0	20.4	-20.4
6	765 kV	JABALPUR-ORAI	2	0	1044	0.0	29.8	-29.8
7	765 kV	GWALIOR-ORAI	1	610	0	10.7	0.0	10.7
8	765 kV	SATNA-ORAI	1	0	1118	0.0	21.7	-21.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1434	29	18.0	0.0	18.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3596	0.0	67.7	-67.7
11	400 kV	ZERDA-KANKROLI	1	289	33	4.0	0.0	4.0
12	400 kV	ZERDA -BHINMAL	1	529	65	6.4	0.0	6.4
13	400 kV	VINDHYACHAL -RIHAND	1	956	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	242	631	0.8	5.5	-4.7
15	220 kV	BHANPURA-RANPUR	1	0	1	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.7	-2.7
17	220 kV	MEHGAON-AURAIYA	1	107	0	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	71	0	1.3	0.0	1.3
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	75.7	251.6	-175.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	2406	0	43.2	0.0	43.2
3	765 kV	SOLAPUR-RAICHUR	2	933	2108	3.0	10.7	-7.7
4	765 kV	WARDHA-NIZAMABAD	2	0	3381	0.0	44.0	-44.0
5	400 kV	KOLHAPUR-KUDGI	2	1588	0	27.9	0.0	27.9
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	106	1.9	0.0	1.9
					WR-SR	100.0	54.8	45.3

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	384	0	352	8.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	820	570	637	15.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	177	0	148	3.6
	NER	132kV GELEPHU-SALAKATI	-11	-1	-5	-0.1
	NER	132kV MOTANGA-RANGIA	-45	-5	-32	-0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-52	-1.3
	ER	NEPAL IMPORT (FROM BIHAR)	-14	0	-2	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	344	160	268	6.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-928	-876	-903	-21.7
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-78	0	-75	-1.8